

WHAT IS CLAIMED IS:

1. A mobile communication system which is comprised of a mobile terminal, a switchboard for controlling the connection of said mobile terminal and a plurality of base stations for relaying a radio signal with said mobile terminal to said switchboard, wherein said switchboard comprising:

average moving speed calculation unit which calculates a moving speed of said mobile terminal from the position information of said mobile terminal which is sent from said mobile terminal; and

incoming call blocking unit which blocks incoming calls to said mobile terminal when the moving speed of said mobile terminal calculated by said moving speed calculation unit exceeds a predetermined threshold.

2. The mobile communication system as set forth in claim 1, wherein

said mobile terminal sends the position information of said mobile terminal which said mobile terminal has received on the basis of a GPS signal from a global positioning system satellite to said switchboard periodically.

3. The mobile communication system as set forth in claim 1, wherein

5413
A3
09855331.051601
T09150 TESS860

5 said mobile terminal includes position
information transmission unit which send the position
information of said mobile terminal to said switchboard
through said base stations periodically, and

SCB
A3
10 said switchboard includes storage unit which
stores the present and previous position information
from said mobile terminal.

4. The mobile communication system as set forth in
claim 1, wherein

5 said mobile terminal comprises
position information obtaining unit which obtains
position information of said mobile terminal
periodically according to a GPS signal from a global
positioning system satellite, and

10 position information transmission unit which
sends the position information of said mobile terminal
to said switchboard through said base stations
periodically,

15 said switchboard comprises storage unit which
stores the present and previous position information
from said mobile terminal.

5. The mobile communication system as set forth in
claim 1, wherein

 said mobile terminal comprises registration
request transmission unit which sends a registration

5 request of the radio zones where said mobile terminal is present now to said switchboard when said mobile terminal is moving among the radio zones of said base stations, and

10 said mobile terminal sends the position information for a predetermined period when the position registration request is sent by said position registration request transmission unit.

6. The mobile communication system as set forth in claim 1, wherein

5 said mobile terminal comprises position information obtaining unit which obtains position information of said mobile terminal periodically according to a GPS signal from a global positioning system satellite,

10 position information transmission unit which sends the position information of said mobile terminal to said switchboard through said base stations, and registration request transmission unit which sends a registration request of the radio zones where said mobile terminal is present now to said switchboard when said mobile terminal moves among the radio zones of said base stations, and

15 sends the position information for a predetermined period when the registration request is sent by said registration request transmission unit.

543
23

0985531.051601

7. An incoming call blocking method for a mobile communication system which is comprised of a mobile terminal, a switchboard for controlling the connection of said mobile terminal and a plurality of base stations which relay a radio signal with said mobile terminal to said switchboard, comprising the following steps of:

obtaining position information of said mobile terminal;

calculating a moving speed of said mobile terminal from the determined position information of said mobile terminal; and

blocking incoming calls to said mobile terminal when the calculated moving speed of said mobile terminal exceeds a predetermined threshold.

8. The incoming call blocking method for a mobile communication system as set forth in claim 7, wherein

position information of said mobile terminal is obtained according to a GPS signal from said global positioning system satellite, and

the obtained position information of said mobile terminal is sent to said switchboard periodically.

9. The incoming call blocking method for a mobile communication system as set forth in claim 7, wherein

said mobile terminal obtains a position of said

5

10

15

5

09855531.051601

53
123

5

mobile terminal periodically and sends the obtained position information of said mobile terminal to said switchboard,

said switchboard stores the position information from said mobile terminal, and

a moving speed of said mobile terminal is calculated from the stored position information of said mobile terminal.

10

10. The incoming call blocking method for a mobile communication system as set forth in claim 7, wherein said mobile terminal sends a registration request of the radio zones where said mobile terminal is present now to said base stations when said mobile terminal is moving among the radio zones of said base stations, and said mobile terminal sends the position information for a predetermined period when said mobile terminal sends the registration request.

5

10

11. A switchboard of a mobile communication system which is comprised of a mobile terminal, a switchboard for controlling the connection of said mobile terminal and a plurality of base stations for relaying a radio signal with said mobile terminal to said switchboard, comprising:

5

average moving speed calculation unit which calculates a moving speed of said mobile terminal from

095531 DELET

543
123

position information of said mobile terminal which is
sent from said mobile terminal; and

incoming call blocking unit which blocks incoming
calls to said mobile terminal when a moving speed of
said mobile terminal calculated by said moving speed
calculation unit exceeds a predetermined threshold.

12. The switchboard of a mobile communication system
as set forth in claim 11, which periodically receives
the position information of said mobile terminal
obtained according to a GPS signal from the global
positioning system satellite and calculates a moving
speed of said mobile terminal every time the position
information is received.

13. The switchboard of a mobile communication system
as set forth in claim 11, further comprising
storage unit which stores the present and
previous position information from said mobile terminal.

14. A mobile communication system which is comprised
of a mobile terminal, a switchboard for controlling the
connection of said mobile terminal and a plurality of
base stations for relaying a radio signal with said
mobile terminal to said switchboard, wherein said
switchboard comprising:

average moving speed calculation means for

10

15

5

5

5

0055531 051601
"T09T50" TESS2060

SC13
A3

calculating a moving speed of said mobile terminal from
the position information of said mobile terminal which
is sent from said mobile terminal; and

incoming call blocking means for blocking
incoming calls to said mobile terminal when the moving
speed of said mobile terminal calculated by said moving
speed calculation means exceeds a predetermined
threshold.

15. The mobile communication system as set forth in
claim 14, wherein

said mobile terminal sends the position
information of said mobile terminal which said mobile
terminal has received on the basis of a GPS signal from
a global positioning system satellite to said
switchboard periodically.

16. The mobile communication system as set forth in
claim 14, wherein

said mobile terminal includes position
information transmission means for sending the position
information of said mobile terminal to said switchboard
through said base stations periodically, and

said switchboard includes storage means for
storing the present and previous position information
from said mobile terminal.

Sub
A3

0985551-051601

17. The mobile communication system as set forth in claim 14, wherein

said mobile terminal comprises

position information obtaining means for obtaining position information of said mobile terminal periodically according to a GPS signal from a global positioning system satellite, and

position information transmission means for sending the position information of said mobile terminal to said switchboard through said base stations periodically,

said switchboard comprises storage means for storing the present and previous position information from said mobile terminal.

18. The mobile communication system as set forth in claim 14, wherein

said mobile terminal comprises registration request transmission means for sending a registration request of the radio zones where said mobile terminal is present now to said switchboard when said mobile terminal is moving among the radio zones of said base stations, and

said mobile terminal sends the position information for a predetermined period when the position registration request is sent by said position registration request transmission means.

SCB
A3
5

0905531.051601
10
15

5

10

19. The mobile communication system as set forth in claim 14, wherein

said mobile terminal comprises

position information obtaining means for

obtaining position information of said mobile terminal periodically according to a GPS signal from a global positioning system satellite,

position information transmission means for sending the position information of said mobile terminal to said switchboard through said base stations, and

registration request transmission means for sending a registration request of the radio zones where said mobile terminal is present now to said switchboard when said mobile terminal moves among the radio zones of said base stations, and

sends the position information for a predetermined period when the registration request is sent by said registration request transmission means.